ELSEVIER

Journal of Organometallic Chemistry 532 (1997) 283

Journal of Organometallic Chemistry

Author Index of Volume 532

Abla, M., 267
Arenas, M., 39

Barkley, J.V., 79
Baudisch, H., 117
Baumann, W., 117, 281
Bercaw, J.E., 45
Blake, A.J., 133
Böcskei, Z., 109
Boersma, J., 235
Braga, D., 133
Brinkmann, P.H.P., 125
Broussier, R., 55
Bumagin, N.A., 271

Canty, A.J., 235
Čejka, J., 251
Chowdhury, S., 101
Crisp, G.T., 83

Dahan, F., 159
Das, I., 101
Dash, A.K., 189
De Boer, J.L., 89
Dyson, P.J., 133

Eckl, R.W., 243
Elsevier, C.J., 89
Ershova, V.A., 11

Fernández, A., 171
Fernández, J.J., 171
Filippou, A.C., 207
Fischer, R.D., 147

Gautheron, B., 55
Gayoso, M., 171
Gebauer, M.G., 83
Golovin, A.V., 11
Green, M., 61
Grepioni, F., 133
Gruber, L., 207
Guan, J., 147
Gupta, B.D., 101

Hajela, S., 45
Hamar-Thibault, S., 31
Harrity, J.P.A., 219
Hassner, A., 279
Heaton, B.T., 79
Herrmann, W.A., 243, 261
Hinz, I., 207
Hossain, M., 189

Johnson, B.F.G., 133

Kalgutkar, R., 109
Kang, S.-O., 79
Kang, Y., 79
Keglevich, G., 109
Kehr, G., 201
Kempe, R., 281
Kerr, W.J., 219
Keserü, G.M., 109
Kim, K.-i., 79
Kirin, V.P., 11
Klahn, A.H., 39
Klimova, E.I., 181
Ko, J., 79
Köcher, C., 261
Kociok-Köhn, G., 207
Kortus, K., 117
Kruis, D., 235

Lahti, P.M., 109
Lee, I., 159
Legrand, C., 55
Liable-Sands, L.M., 189
López Torres, M., 171
Luinstra, G.A., 125
Luzikova, E.V., 271

Mach, K., 229, 251
Maisel, H.E., 201
Maisonnat, A., 159
Maksakov, V.A., 11
Mallors, R.L., 133
Manriquez, V., 39
Markies, B.A., 235
Martinez Garcia, M., 181
Mathur, P., 189
McGrath, T.D., 61
Meleshonkova, N.N., 181
Middlemiss, D., 219
Mills, G.P., 229
Moutet, J.-C., 31
Mul, W.P., 89

Namboothiri, I.N.N., 279
Ninoreille, S., 55
Nöth, H., 201

Ohff, A., 281
Ordung, I., 71
Ortigueira, J.M., 171

Parisini, E., 133
Parsons, S., 133
Paz-Sandoval, M.A., 17
Pereira, M.T., 171
Periasamy, M., 143
Petrusová, L., 251
Poilblanc, R., 159
Priermeier, T., 243
Pulst, S., 117

Quin, L.D., 109

Rao, M.L.N., 143
Ravikumar, K., 101
Raynor, J.B., 229
Rheingold, A.L., 189
Rosenthal, U., 117, 281
Roy, S., 101
Ruíz Ramirez, L., 181

Satyanarayana, C.V.V., 189
Schaefer, W.P., 45
Schwarze, B., 71
Scott, J.S., 219
Simard, M.G., 1
Smeets, W.J.J., 89
Spek, A.L., 89

Teuben, J.H., 125
Thomas, R.Ll., 61
Tillack, A., 117
Tingry, S., 31
Toro, A., 39
Torres Lubián, R., 17

Van Koten, G., 235
Varga, V., 251
Vila, J.M., 171
Vuurman, M.A., 89

Walker, A.P., 61
Wharf, I., 1
Wittke, O., 39
Wössner, D., 207
Wrackmeyer, B., 71, 201

Yamamoto, T., 267
Yap, G.P.A., 189

Elsevier Science S.A.

ELSEVIER

Journal of Organometallic Chemistry 532 (1997) 285–291

Journal of Organometallic Chemistry

Subject Index of Volume 532

Alkyl
Synthesis and thermolysis of $Cp^*(C_5Me_4CH_2)TiR$ complexes (G.A. Luinstra, P.H.P. Brinkmann and J.H. Teuben), 125

Alkyl transfer
Selectivity in reductive elimination and organohalide transfer from methyl(aryl)benzylpalladium(IV) complexes of bidentate nitrogen donor ligands, $PdBrMe(Ar)(CH_2Ph)(L_2)$ (D. Kruis, B.A. Markies, A.J. Canty, J. Boersma and G. Van Koten), 235

Alkyne
Arene–alkyne derivatives of $Ru_6C(CO)_{17}$: synthesis and structure of $Ru_6C(CO)_{12}(\eta^6\text{-arene})(\mu_3\text{-}C_2Me_2)$ (arene = $C_6H_{6-n}Me_n$, n = 0–3) and $Ru_6C(CO)_{12}(\mu_3\text{-}C_{16}H_{16})(\mu_3\text{-}C_2Me_2)$ (R.L. Mallors, A.J. Blake, S. Parsons, B.F.G. Johnson, P.J. Dyson, D. Braga, F. Grepioni and E. Parisini), 133
Reductive Pauson–Khand reaction using the $(RC{\equiv}CR')Co_2(CO)_6$/$CF_3COOH$ system (M.L.N. Rao and M. Periasamy), 143
Synthesis, characterisation and reactivity of the first heptamethylindenyl–molybdenum complexes: crystal structures of $[Mo(CO)(\eta^2\text{-}MeC{\equiv}CMe)_2(\eta^5\text{-}C_9Me_7)]BF_4$ and $[Mo(CO)_2(\eta^3\text{-}C_3H_5)(\eta^5\text{-}C_9Me_7)]$ (M. Green, T.D. McGrath, R.Ll. Thomas and A.P. Walker), 61

Alkynes
[μ^2-,η^2-Alkynyl-hexacarbonyldicobalt]organotin complexes and the molecular structure of bis[μ^2-,η^2-ethynylhexacarbonyldicobalt]diphenyltin (B. Wrackmeyer, H.E. Maisel, G. Kehr and H. Nöth), 201
Hydrosilylierung von symmetrisch disubstituierten Alkinen und Butadiinen mit $L_2Ni(0)$-Butadiin-Komplexen [L = Ph_3P, $(o\text{-Tol-O})_3P$] als Katalysatoren (A. Tillack, S. Pulst, W. Baumann, H. Baudisch, K. Kortus und U. Rosenthal), 117

1-Alkynes
Permethyltitanocene(III) diacetylide – magnesium tweezer complexes, intermediates in the catalysis of linear head-to-tail dimerization of terminal acetylenes (V. Varga, L. Petrusová, J. Čejka and K. Mach), 251

Allenes
Hydrosilylierung von symmetrisch disubstituierten Alkinen und Butadiinen mit $L_2Ni(0)$-Butadiin-Komplexen [L = Ph_3P, $(o\text{-Tol-O})_3P$] als Katalysatoren (A. Tillack, S. Pulst, W. Baumann, H. Baudisch, K. Kortus und U. Rosenthal), 117

Allyl rearrangement
The rearrangement of the uncoordinated allyl fragment of the carboxamide ligand in $(\mu\text{-H})Os_3(CO)_{10}(\mu\text{-}OCNHCH_2CH{=}CH_2)$ cluster (V.A. Maksakov, V.A. Ershova, V.P. Kirin and A.V. Golovin), 11

Arene
Arene–alkyne derivatives of $Ru_6C(CO)_{17}$: synthesis and structure of $Ru_6C(CO)_{12}(\eta^6\text{-arene})(\mu_3\text{-}C_2Me_2)$ (arene = $C_6H_{6-n}Me_n$, n = 0–3) and $Ru_6C(CO)_{12}(\mu_3\text{-}C_{16}H_{16})(\mu_3\text{-}C_2Me_2)$ (R.L. Mallors, A.J. Blake, S. Parsons, B.F.G. Johnson, P.J. Dyson, D. Braga, F. Grepioni and E. Parisini), 133

Aromaticity
Phospholes with reduced pyramidal character from steric crowding III. NMR and X-ray diffraction studies on 1-(2,4,6-tri-isopropylphenyl)-3-methylphosphole (G. Keglevich, L.D. Quin, Z. Böcskei, G.M. Keserü, R. Kalgutkar and P.M. Lahti), 109

Arylation
Stepwise substitution reactions of the $(\eta^5\text{-}C_5Me_5)Re(CO)_2I_2$ complex: aryl–iodo and aryl–methyl derivatives *trans*-$(\eta^5\text{-}C_5Me_5)Re(CO)_2(Ar)X$, X = I and Me. X-ray structure of *trans*-$(\eta^5\text{-}C_5Me_5)Re(CO)_2(Ph)I$ (A.H. Klahn, A. Toro, M. Arenas, V. Manriquez and O. Wittke), 39

Aryl halides
Palladium catalyzed cross-coupling reaction of Grignard reagents with halobenzoic acids, halophenols and haloanilines (N.A. Bumagin and E.V. Luzikova), 271

Aryltin compounds
Studies in aryltin chemistry. X. Synthesis and NMR spectra (^{119}Sn and ^{13}C) of some *meta*- and *ortho*-substituted tetra- and triaryltin compounds. The crystal and molecular structures of tris(*m*-tolyl)- and tris(3,5-dimethylphenyl)tin(IV) chloride (I. Wharf and M.G. Simard), 1

Asymmetric catalysis
IX. Mono- and biphasic asymmetric hydroformylation with rhodium catalysts of the diphosphine ligand NAPHOS and its sulfonated derivatives (R.W. Eckl, T. Priermeier and W.A. Herrmann), 243

Biphasic catalysis
IX. Mono- and biphasic asymmetric hydroformylation with rhodium catalysts of the diphosphine ligand NAPHOS and its sulfonated derivatives (R.W. Eckl, T. Priermeier and W.A. Herrmann), 243

Bird-index
Phospholes with reduced pyramidal character from steric crowding III. NMR and X-ray diffraction studies on 1-(2,4,6-tri-isopropylphenyl)-3-methylphosphole (G. Keglevich, L.D. Quin, Z. Böcskei, G.M. Keserü, R. Kalgutkar and P.M. Lahti), 109

Boron
Synthesis of novel heterocycles by the reaction of N,C-dilithio-2-allylpyrrole with electrophiles (B. Wrackmeyer, I. Ordung and B. Schwarze), 71

Butadiynes
Hydrosilylierung von symmetrisch disubstituierten Alkinen und Butadiinen mit $L_2Ni(0)$-Butadiin-Komplexen [L = Ph_3P, $(o\text{-Tol-O})_3P$] als Katalysatoren (A. Tillack, S. Pulst, W. Baumann, H. Baudisch, K. Kortus und U. Rosenthal), 117

Carbenes
Heterocyclic carbenes. One-pot synthesis of rhodium and iridium carbene complexes (C. Köcher and W.A. Herrmann), 261

Carbon monoxide
Reductive Pauson–Khand reaction using the $(RC{\equiv}CR')Co_2(CO)_6$/$CF_3COOH$ system (M.L.N. Rao and M. Periasamy), 143

Elsevier Science S.A.

Carbonyl
Diyne-bridged metal clusters: synthesis and spectroscopic characterization of $[(CO)_6Fe_2Se_2\{\mu\text{-}HC{=}C(CCR)\}M]$ (R = Me and ^nBu; M = $Cp_2Mo_2(CO)_4$, $Co_2(CO)_6$, $Ru_3(CO)_{10}$ and $Os_3(CO)_{10}$). Structural characterization of $[(CO)_6Fe_2Se_2\{\mu\text{-}HC{=}C(CC^nBu)\}Cp_2Mo_2(CO)_4]$ and $[(CO)_6Fe_2Se_2\{\mu\text{-}HC{=}C(CCMe)\}Ru_3(CO)_{10}]$ (P. Mathur, A.K. Dash, M. Hossain, C.V.V. Satyanarayana, A.L. Rheingold, L.M. Liable-Sands and G.P.A. Yap), 189
Synthesis, characterisation and reactivity of the first heptamethylindenyl–molybdenum complexes: crystal structures of $[Mo(CO)(\eta^2\text{-}MeC{=}CMe)_2(\eta^5\text{-}C_9Me_7)]BF_4$ and $[Mo(CO)_2(\eta^3\text{-}C_3H_3)(\eta^5\text{-}C_9Me_7)]$ (M. Green, T.D. McGrath, R.Ll. Thomas and A.P. Walker), 61
Carbonylation
Reductive Pauson–Khand reaction using the $(RC{\equiv}CR')Co_2(CO)_6$/$CF_3COOH$ system (M.L.N. Rao and M. Periasamy), 143
Carbonyl complexes
Synthesis and characterisation of ruthenium carbonyl complexes with cyclometallated ligands derived from senecialdimine (W.P. Mul, C.J. Elsevier, M.A. Vuurman, W.J.J. Smeets, A.L. Spek and J.L. De Boer), 89
Carbyne complexes
Metal–carbon multiple bonds: synthesis, structure, and electrochemistry of chromium aminocarbyne and phenylcarbyne complexes bearing phosphine or alkyl isonitrile ligands (A.C. Filippou, D. Wössner, G. Kociok-Köhn, I. Hinz and L. Gruber), 207
Catalysis
Palladium catalyzed cross-coupling reaction of Grignard reagents with halobenzoic acids, halophenols and haloanilines (N.A. Bumagin and E.V. Luzikova), 271
The hydrostannation of a propargylglycine derivative (G.T. Crisp and M.G. Gebauer), 83
Chalcogen
Cyclopentadiene with two coordinating sites: 1,5-bis(diphenylphosphino)-2,3,4-trimethylcyclopenta-1,3-diene (R. Broussier, S. Ninoreille, C. Legrand and B. Gautheron), 55
Chiral
Transition-metal complexes of cyclopentadienylphosphines. XIV. Reduction reactions of various derivatives of the chelate fragment $[\{\eta^5{:}\eta^1\text{-}C_5H_4(CH_2)_2PPh_2\}M^{III}]^{2+}$, M = Rh, Ir (I. Lee, F. Dahan, A. Maisonnat and R. Poilblanc), 159
Chromium
Metal–carbon multiple bonds: synthesis, structure, and electrochemistry of chromium aminocarbyne and phenylcarbyne complexes bearing phosphine or alkyl isonitrile ligands (A.C. Filippou, D. Wössner, G. Kociok-Köhn, I. Hinz and L. Gruber), 207
Chromium carbene complexes
Total synthesis of parvaquone and the serendipitous discovery of a novel chromium-mediated method for β-lactone formation (J.P.A. Harrity, W.J. Kerr, D. Middlemiss and J.S. Scott), 219
Cluster
Arene–alkyne derivatives of $Ru_6C(CO)_{17}$: synthesis and structure of $Ru_6C(CO)_{12}(\eta^6\text{-arene})(\mu_3\text{-}C_2Me_2)$ (arene = $C_6H_{6-n}Me_n$, n = 0–3) and $Ru_6C(CO)_{12}(\mu_3\text{-}C_{16}H_{16})(\mu_3\text{-}C_2Me_2)$ (R.L. Mallors, A.J. Blake, S. Parsons, B.F.G. Johnson, P.J. Dyson, D. Braga, F. Grepioni and E. Parisini), 133
Synthesis and characterisation of ruthenium carbonyl complexes with cyclometallated ligands derived from senecialdimine (W.P. Mul, C.J. Elsevier, M.A. Vuurman, W.J.J. Smeets, A.L. Spek and J.L. De Boer), 89
Cluster isomers
The rearrangement of the uncoordinated allyl fragment of the carboxamide ligand in $(\mu\text{-}H)Os_3(CO)_{10}(\mu\text{-}OCNHCH_2CH{=}CH_2)$ cluster (V.A. Maksakov, V.A. Ershova, V.P. Kirin and A.V. Golovin), 11
Clusters
$[\mu^2\text{-},\eta^2\text{-}$Alkynyl-hexacarbonyldicobalt]organotin complexes and the molecular structure of bis$[\mu^2\text{-},\eta^2\text{-}$ethynylhexacarbonyldicobalt]diphenyltin (B. Wrackmeyer, H.E. Maisel, G. Kehr and H. Nöth), 201
Cobalt
$[\mu^2\text{-},\eta^2\text{-}$Alkynyl-hexacarbonyldicobalt]organotin complexes and the molecular structure of bis$[\mu^2\text{-},\eta^2\text{-}$ethynylhexacarbonyldicobalt]diphenyltin (B. Wrackmeyer, H.E. Maisel, G. Kehr and H. Nöth), 201
Diyne-bridged metal clusters: synthesis and spectroscopic characterization of $[(CO)_6Fe_2Se_2\{\mu\text{-}HC{=}C(CCR)\}M]$ (R = Me and ^nBu; M = $Cp_2Mo_2(CO)_4$, $Co_2(CO)_6$, $Ru_3(CO)_{10}$ and $Os_3(CO)_{10}$). Structural characterization of $[(CO)_6Fe_2Se_2\{\mu\text{-}HC{=}C(CC^nBu)\}Cp_2Mo_2(CO)_4]$ and $[(CO)_6Fe_2Se_2\{\mu\text{-}HC{=}C(CCMe)\}Ru_3(CO)_{10}]$ (P. Mathur, A.K. Dash, M. Hossain, C.V.V. Satyanarayana, A.L. Rheingold, L.M. Liable-Sands and G.P.A. Yap), 189
Reductive Pauson–Khand reaction using the $(RC{\equiv}CR')Co_2(CO)_6$/$CF_3COOH$ system (M.L.N. Rao and M. Periasamy), 143
Synthesis, characterization and reactivity of $Cp(C_2H_4)Co(o\text{-}Me_2SiC_6H_4SiMe_2)$; a model compound of selective double silylation (Y. Kang, K.-i. Kim, S.-O. Kang, J. Ko, B.T. Heaton and J.V. Barkley), 79
Cross-coupling
Palladium catalyzed cross-coupling reaction of Grignard reagents with halobenzoic acids, halophenols and haloanilines (N.A. Bumagin and E.V. Luzikova), 271
Crystal structure
Diyne-bridged metal clusters: synthesis and spectroscopic characterization of $[(CO)_6Fe_2Se_2\{\mu\text{-}HC{=}C(CCR)\}M]$ (R = Me and ^nBu; M = $Cp_2Mo_2(CO)_4$, $Co_2(CO)_6$, $Ru_3(CO)_{10}$ and $Os_3(CO)_{10}$). Structural characterization of $[(CO)_6Fe_2Se_2\{\mu\text{-}HC{=}C(CC^nBu)\}Cp_2Mo_2(CO)_4]$ and $[(CO)_6Fe_2Se_2\{\mu\text{-}HC{=}C(CCMe)\}Ru_3(CO)_{10}]$ (P. Mathur, A.K. Dash, M. Hossain, C.V.V. Satyanarayana, A.L. Rheingold, L.M. Liable-Sands and G.P.A. Yap), 189
Oxidative addition of C–CN bond to nickel(0) complex: synthesis and crystal structures of $Ni(CN)(o\text{-}C_6H_4CN)(bpy)$ and $Ni(CN)(p\text{-}C_6H_4CN)(bpy)$ (M. Abla and T. Yamamoto), 267
Stepwise substitution reactions of the $(\eta^5\text{-}C_5Me_5)Re(CO)_2I_2$ complex: aryl–iodo and aryl–methyl derivatives *trans*-$(\eta^5\text{-}C_5Me_5)Re(CO)_2(Ar)X$, X = I and Me. X-ray structure of *trans*-$(\eta^5\text{-}C_5Me_5)Re(CO)_2(Ph)I$ (A.H. Klahn, A. Toro, M. Arenas, V. Manriquez and O. Wittke), 39
Synthesis, characterisation and reactivity of the first heptamethylindenyl–molybdenum complexes: crystal structures of $[Mo(CO)(\eta^2\text{-}MeC{=}CMe)_2(\eta^5\text{-}C_9Me_7)]BF_4$ and $[Mo(CO)_2(\eta^3\text{-}C_3H_5)(\eta^5\text{-}C_9Me_7)]$ (M. Green, T.D. McGrath, R.Ll. Thomas and A.P. Walker), 61
Crystal structures
Studies in aryltin chemistry. X. Synthesis and NMR spectra (^{119}Sn and ^{13}C) of some *meta*- and *ortho*-substituted tetra- and triaryltin compounds. The crystal and molecular structures of tris(*m*-tolyl)- and tris(3,5-dimethylphenyl)tin(IV) chloride (I. Wharf and M.G. Simard), 1
Tris(indenyl)lanthanum(III) derivatives with two stereogenic centres: crystal structures and solution NMR spectroscopy of the adducts $[(C_9H_7)_3La\cdot L]$ with L = (R)-(+)-methyl-p-tolylsulphoxide and triphenylphosphinoxide (J. Guan and R.D. Fischer), 147
Cyclic voltammetry
Metal–carbon multiple bonds: synthesis, structure, and electrochemistry of chromium aminocarbyne and phenylcarbyne complexes bearing phosphine or alkyl isonitrile ligands (A.C. Filippou, D. Wössner, G. Kociok-Köhn, I. Hinz and L. Gruber), 207

Cyclization
Organocobaloximes in organic synthesis. An unusual radical-dependent five-member cyclization (I. Das, S. Chowdhury, K. Ravikumar, S. Roy and B.D. Gupta), 101
Cycloaddition
3-Methylene-2-ferrocenylmethylenequinuclidine in cycloaddition and dimerization reactions (E.I. Klimova, L. Ruíz Ramirez, M. Martinez Garcia and N.N. Meleshonkova), 181
Cyclodimerization
3-Methylene-2-ferrocenylmethylenequinuclidine in cycloaddition and dimerization reactions (E.I. Klimova, L. Ruíz Ramirez, M. Martinez Garcia and N.N. Meleshonkova), 181
Cyclometallated ligands
Synthesis and characterisation of ruthenium carbonyl complexes with cyclometallated ligands derived from senecialdimine (W.P. Mul, C.J. Elsevier, M.A. Vuurman, W.J.J. Smeets, A.L. Spek and J.L. De Boer), 89
Cyclometallation
Cyclometallated complexes of palladium(II) with a *C,N,N'* terdentate Schiff base donor ligand. Oxidative addition of an aryl–chlorine bond to palladium(0) (J.M. Vila, M. Gayoso, M.T. Pereira, M. López Torres, J.J. Fernández, A. Fernández and J.M. Ortigueira), 171
Cyclopentadiene
Cyclopentadiene with two coordinating sites: 1,5-bis(diphenylphosphino)-2,3,4-trimethylcyclopenta-1,3-diene (R. Broussier, S. Ninoreille, C. Legrand and B. Gautheron), 55
Cyclopentadienyls
Stepwise substitution reactions of the $(\eta^5\text{-}C_5Me_5)Re(CO)_2I_2$ complex: aryl–iodo and aryl–methyl derivatives *trans*-$(\eta^5\text{-}C_5Me_5)Re(CO)_2(Ar)X$, X = I and Me. X-ray structure of *trans*-$(\eta^5\text{-}C_5Me_5)Re(CO)_2(Ph)I$ (A.H. Klahn, A. Toro, M. Arenas, V. Manriquez and O. Wittke), 39
Synthesis, properties and crystal structures of pentamethylcyclopentadienyl- and cyclopentadienyl–ruthenium(II) diphenylphosphine complexes (R. Torres Lubián and M.A. Paz-Sandoval), 17
Cyclopentanones
Reductive Pauson–Khand reaction using the $(RC{\equiv}CR')Co_2(CO)_6$/$CF_3COOH$ system (M.L.N. Rao and M. Periasamy), 143

Delocalization
Phospholes with reduced pyramidal character from steric crowding III. NMR and X-ray diffraction studies on 1-(2,4,6-tri-isopropylphenyl)-3-methylphosphole (G. Keglevich, L.D. Quin, Z. Böcskei, G.M. Keserü, R. Kalgutkar and P.M. Lahti), 109
Dicobaltatetrahedranes
[μ^2-,η^2-Alkynyl-hexacarbonyldicobalt]organotin complexes and the molecular structure of bis[μ^2-,η^2-ethynylhexacarbonyldicobalt]diphenyltin (B. Wrackmeyer, H.E. Maisel, G. Kehr and H. Nöth), 201
Dimerization
Permethyltitanocene(III) diacetylide – magnesium tweezer complexes, intermediates in the catalysis of linear head-to-tail dimerization of terminal acetylenes (V. Varga, L. Petrusová, J. Čejka and K. Mach), 251
Diphosphine
Cyclopentadiene with two coordinating sites: 1,5-bis(diphenylphosphino)-2,3,4-trimethylcyclopenta-1,3-diene (R. Broussier, S. Ninoreille, C. Legrand and B. Gautheron), 55
Disilacobaltacycle
Synthesis, characterization and reactivity of $Cp(C_2H_4)$-$Co(o\text{-}Me_2SiC_6H_4SiMe_2)$; a model compound of selective double silylation (Y. Kang, K.-i. Kim, S.-O. Kang, J. Ko, B.T. Heaton and J.V. Barkley), 79
Diyne
Diyne-bridged metal clusters: synthesis and spectroscopic characterization of $[(CO)_6Fe_2Se_2\{\mu\text{-}HC{=}C(CCR)\}M]$ (R = Me and ^nBu; M = $Cp_2Mo_2(CO)_4$, $Co_2(CO)_6$, $Ru_3(CO)_{10}$ and $Os_3(CO)_{10}$). Structural characterization of $[(CO)_6Fe_2Se_2\{\mu\text{-}HC{=}C(C^nBu)\}Cp_2Mo_2(CO)_4]$ and $[(CO)_6Fe_2Se_2\{\mu\text{-}HC{=}C(CCMe)\}Ru_3(CO)_{10}]$ (P. Mathur, A.K. Dash, M. Hossain, C.V.V. Satyanarayana, A.L. Rheingold, L.M. Liable-Sands and G.P.A. Yap), 189
Dötz benzannulation
Total synthesis of parvaquone and the serendipitous discovery of a novel chromium-mediated method for β-lactone formation (J.P.A. Harrity, W.J. Kerr, D. Middlemiss and J.S. Scott), 219
Double silylation
Synthesis, characterization and reactivity of $Cp(C_2H_4)$-$Co(o\text{-}Me_2SiC_6H_4SiMe_2)$; a model compound of selective double silylation (Y. Kang, K.-i. Kim, S.-O. Kang, J. Ko, B.T. Heaton and J.V. Barkley), 79
Dry state techniques
Total synthesis of parvaquone and the serendipitous discovery of a novel chromium-mediated method for β-lactone formation (J.P.A. Harrity, W.J. Kerr, D. Middlemiss and J.S. Scott), 219

Electrocatalysis
Polypyrrole films containing rhodium(I) and iridium(I) complexes: improvement in their synthesis and electrocatalytic activity in aqueous media (S. Hamar-Thibault, J.-C. Moutet and S. Tingry), 31
Electron spin resonance
Low pressure pyrolysis of hexamethyldisilane: electron spin resonance identification of radical intermediates (K. Mach, G.P. Mills and J.B. Raynor), 229
ESR
Permethyltitanocene(III) diacetylide – magnesium tweezer complexes, intermediates in the catalysis of linear head-to-tail dimerization of terminal acetylenes (V. Varga, L. Petrusová, J. Čejka and K. Mach), 251

Ferrocene
3-Methylene-2-ferrocenylmethylenequinuclidine in cycloaddition and dimerization reactions (E.I. Klimova, L. Ruíz Ramirez, M. Martinez Garcia and N.N. Meleshonkova), 181
Fulvene
Synthesis and thermolysis of $Cp^*(C_5Me_4CH_2)TiR$ complexes (G.A. Luinstra, P.H.P. Brinkmann and J.H. Teuben), 125

Group 6
Cyclopentadiene with two coordinating sites: 1,5-bis(diphenylphosphino)-2,3,4-trimethylcyclopenta-1,3-diene (R. Broussier, S. Ninoreille, C. Legrand and B. Gautheron), 55

Heptamethylindenyl
Synthesis, characterisation and reactivity of the first heptamethylindenyl–molybdenum complexes: crystal structures of $[Mo(CO)(\eta^2\text{-}MeC{=}CMe)_2(\eta^5\text{-}C_9Me_7)]BF_4$ and $[Mo(CO)_2(\eta^3\text{-}C_3H_5)(\eta^5\text{-}C_9Me_7)]$ (M. Green, T.D. McGrath, R.Ll. Thomas and A.P. Walker), 61
Heterocycles
Heterocyclic carbenes. One-pot synthesis of rhodium and iridium carbene complexes (C. Köcher and W.A. Herrmann), 261
Heterocyclic carbenes
Heterocyclic carbenes. One-pot synthesis of rhodium and iridium carbene complexes (C. Köcher and W.A. Herrmann), 261

Heterodifunctional ligand
Transition-metal complexes of cyclopentadienylphosphines. XIV. Reduction reactions of various derivatives of the chelate fragment $[(\eta^5:\eta^1\text{-}C_5H_4(CH_2)_2PPh_2)M^{III}]^{2+}$, M = Rh, Ir (I. Lee, F. Dahan, A. Maisonnat and R. Poilblanc), 159
Hydroformylation
IX. Mono- and biphasic asymmetric hydroformylation with rhodium catalysts of the diphosphine ligand NAPHOS and its sulfonated derivatives (R.W. Eckl, T. Priermeier and W.A. Herrmann), 243
Hydrosilylation
Hydrosilylierung von symmetrisch disubstituierten Alkinen und Butadiinen mit $L_2Ni(0)$-Butadiin-Komplexen [L = Ph_3P, $(o\text{-Tol-O})_3P$] als Katalysatoren (A. Tillack, S. Pulst, W. Baumann, H. Baudisch, K. Kortus und U. Rosenthal), 117
2-Hydroxy-1,4-naphthoquinones
Total synthesis of parvaquone and the serendipitous discovery of a novel chromium-mediated method for β-lactone formation (J.P.A. Harrity, W.J. Kerr, D. Middlemiss and J.S. Scott), 219

Imine
Synthesis and characterisation of ruthenium carbonyl complexes with cyclometallated ligands derived from senecialdimine (W.P. Mul, C.J. Elsevier, M.A. Vuurman, W.J.J. Smeets, A.L. Spek and J.L. De Boer), 89
Indenyl
Synthesis, characterisation and reactivity of the first heptamethylindenyl–molybdenum complexes: crystal structures of $[Mo(CO)(\eta^2\text{-}MeC{\equiv}CMe)_2(\eta^5\text{-}C_9Me_7)]BF_4$ and $[Mo(CO)_2(\eta^3\text{-}C_3H_5)(\eta^5\text{-}C_9Me_7)]$ (M. Green, T.D. McGrath, R.Ll. Thomas and A.P. Walker), 61
Tris(indenyl)lanthanum(III) derivatives with two stereogenic centres: crystal structures and solution NMR spectroscopy of the adducts $[(C_9H_7)_3La \cdot L]$ with L = (R)-(+)-methyl-p-tolylsulphoxide and triphenylphosphinoxide (J. Guan and R.D. Fischer), 147
Iridium
Heterocyclic carbenes. One-pot synthesis of rhodium and iridium carbene complexes (C. Köcher and W.A. Herrmann), 261
Iron
Diyne-bridged metal clusters: synthesis and spectroscopic characterization of $[(CO)_6Fe_2Se_2\{\mu\text{-}HC{=}C(CCR)\}M]$ (R = Me and ^{n}Bu; M = $Cp_2Mo_2(CO)_4$, $Co_2(CO)_6$, $Ru_3(CO)_{10}$ and $Os_3(CO)_{10}$). Structural characterization of $[(CO)_6Fe_2Se_2\{\mu\text{-}HC{=}C(CC^nBu)\}Cp_2Mo_2(CO)_4]$ and $[(CO)_6Fe_2Se_2\{\mu\text{-}HC{=}C(CCMe)\}Ru_3(CO)_{10}]$ (P. Mathur, A.K. Dash, M. Hossain, C.V.V. Satyanarayana, A.L. Rheingold, L.M. Liable-Sands and G.P.A. Yap), 189
Isonitrile complexes
Metal–carbon multiple bonds: synthesis, structure, and electrochemistry of chromium aminocarbyne and phenylcarbyne complexes bearing phosphine or alkyl isonitrile ligands (A.C. Filippou, D. Wössner, G. Kociok-Köhn, I. Hinz and L. Gruber), 207

β-Lactones
Total synthesis of parvaquone and the serendipitous discovery of a novel chromium-mediated method for β-lactone formation (J.P.A. Harrity, W.J. Kerr, D. Middlemiss and J.S. Scott), 219
Lanthanum
Tris(indenyl)lanthanum(III) derivatives with two stereogenic centres: crystal structures and solution NMR spectroscopy of the adducts $[(C_9H_7)_3La \cdot L]$ with L = (R)-(+)-methyl-p-tolylsulphoxide and triphenylphosphinoxide (J. Guan and R.D. Fischer), 147

Macrocyclic amine ligands
Highly electron deficient Group 3 organometallic complexes based on the 1,4,7-trimethyl-1,4,7-triazacyclononane ligand system (S. Hajela, W.P. Schaefer and J.E. Bercaw), 45
Magnesium
Palladium catalyzed cross-coupling reaction of Grignard reagents with halobenzoic acids, halophenols and haloanilines (N.A. Bumagin and E.V. Luzikova), 271
Metallopolymer films
Polypyrrole films containing rhodium(I) and iridium(I) complexes: improvement in their synthesis and electrocatalytic activity in aqueous media (S. Hamar-Thibault, J.-C. Moutet and S. Tingry), 31
Methyl
Highly electron deficient Group 3 organometallic complexes based on the 1,4,7-trimethyl-1,4,7-triazacyclononane ligand system (S. Hajela, W.P. Schaefer and J.E. Bercaw), 45
Modified electrodes
Polypyrrole films containing rhodium(I) and iridium(I) complexes: improvement in their synthesis and electrocatalytic activity in aqueous media (S. Hamar-Thibault, J.-C. Moutet and S. Tingry), 31
Molybdenum
Diyne-bridged metal clusters: synthesis and spectroscopic characterization of $[(CO)_6Fe_2Se_2\{\mu\text{-}HC{=}C(CCR)\}M]$ (R = Me and ^{n}Bu; M = $Cp_2Mo_2(CO)_4$, $Co_2(CO)_6$, $Ru_3(CO)_{10}$ and $Os_3(CO)_{10}$). Structural characterization of $[(CO)_6Fe_2Se_2\{\mu\text{-}HC{=}C(CC^nBu)\}Cp_2Mo_2(CO)_4]$ and $[(CO)_6Fe_2Se_2\{\mu\text{-}HC{=}C(CCMe)\}Ru_3(CO)_{10}]$ (P. Mathur, A.K. Dash, M. Hossain, C.V.V. Satyanarayana, A.L. Rheingold, L.M. Liable-Sands and G.P.A. Yap), 189
Synthesis, characterisation and reactivity of the first heptamethylindenyl–molybdenum complexes: crystal structures of $[Mo(CO)(\eta^2\text{-}MeC{\equiv}CMe)_2(\eta^5\text{-}C_9Me_7)]BF_4$ and $[Mo(CO)_2(\eta^3\text{-}C_3H_5)(\eta^5\text{-}C_9Me_7)]$ (M. Green, T.D. McGrath, R.Ll. Thomas and A.P. Walker), 61
Multiple bonds
Metal–carbon multiple bonds: synthesis, structure, and electrochemistry of chromium aminocarbyne and phenylcarbyne complexes bearing phosphine or alkyl isonitrile ligands (A.C. Filippou, D. Wössner, G. Kociok-Köhn, I. Hinz and L. Gruber), 207

N,C-dilithio reagent
Synthesis of novel heterocycles by the reaction of N,C-dilithio-2-allylpyrrole with electrophiles (B. Wrackmeyer, I. Ordung and B. Schwarze), 71
Nickel
Oxidative addition of C–CN bond to nickel(0) complex: synthesis and crystal structures of $Ni(CN)(o\text{-}C_6H_4CN)(bpy)$ and $Ni(CN)(p\text{-}C_6H_4CN)(bpy)$ (M. Abla and T. Yamamoto), 267
Nickel catalysts
Hydrosilylierung von symmetrisch disubstituierten Alkinen und Butadiinen mit $L_2Ni(0)$-Butadiin-Komplexen [L = Ph_3P, $(o\text{-Tol-O})_3P$] als Katalysatoren (A. Tillack, S. Pulst, W. Baumann, H. Baudisch, K. Kortus und U. Rosenthal), 117
Nitrile
Oxidative addition of C–CN bond to nickel(0) complex: synthesis and crystal structures of $Ni(CN)(o\text{-}C_6H_4CN)(bpy)$ and $Ni(CN)(p\text{-}C_6H_4CN)(bpy)$ (M. Abla and T. Yamamoto), 267
NMR
$[\mu^2\text{-},\eta^2\text{-}$Alkynyl-hexacarbonyldicobalt]organotin complexes and the molecular structure of bis$[\mu^2\text{-},\eta^2\text{-}$ethynylhexacarbonyldicobalt]diphenyltin (B. Wrackmeyer, H.E. Maisel, G. Kehr and H. Nöth), 201
Synthesis and thermolysis of $Cp^*(C_5Me_4CH_2)TiR$ complexes (G.A. Luinstra, P.H.P. Brinkmann and J.H. Teuben), 125
Synthesis of novel heterocycles by the reaction of N,C-dilithio-2-allylpyrrole with electrophiles (B. Wrackmeyer, I. Ordung and B. Schwarze), 71

NMR spectra
Studies in aryltin chemistry. X. Synthesis and NMR spectra (^{119}Sn and ^{13}C) of some *meta*- and *ortho*-substituted tetra- and triaryltin compounds. The crystal and molecular structures of tris(*m*-tolyl)- and tris(3,5-dimethylphenyl)tin(IV) chloride (I. Wharf and M.G. Simard), 1
Nuclear magnetic resonance
Tris(indenyl)lanthanum(III) derivatives with two stereogenic centres: crystal structures and solution NMR spectroscopy of the adducts $[(C_9H_7)_3La \cdot L]$ with L = (R)-(+)-methyl-p-tolylsulphoxide and triphenylphosphinoxide (J. Guan and R.D. Fischer), 147

Olefins
Highly electron deficient Group 3 organometallic complexes based on the 1,4,7-trimethyl-1,4,7-triazacyclononane ligand system (S. Hajela, W.P. Schaefer and J.E. Bercaw), 45
Organic synthesis
Organocobaloximes in organic synthesis. An unusual radical-dependent five-member cyclization (I. Das, S. Chowdhury, K. Ravikumar, S. Roy and B.D. Gupta), 101
Organocobaloximes
Organocobaloximes in organic synthesis. An unusual radical-dependent five-member cyclization (I. Das, S. Chowdhury, K. Ravikumar, S. Roy and B.D. Gupta), 101
Osmium
Diyne-bridged metal clusters: synthesis and spectroscopic characterization of $[(CO)_6Fe_2Se_2\{\mu\text{-}HC{=}C(CCR)\}M]$ (R = Me and ^{n}Bu; M = $Cp_2Mo_2(CO)_4$, $Co_2(CO)_6$, $Ru_3(CO)_{10}$ and $Os_3(CO)_{10}$). Structural characterization of $[(CO)_6Fe_2Se_2\{\mu\text{-}HC{=}C(CC^nBu)\}Cp_2Mo_2(CO)_4]$ and $[(CO)_6Fe_2Se_2\{\mu\text{-}HC{=}C(CCMe)\}Ru_3(CO)_{10}]$ (P. Mathur, A.K. Dash, M. Hossain, C.V.V. Satyanarayana, A.L. Rheingold, L.M. Liable-Sands and G.P.A. Yap), 189
Oxidative addition
Cyclometallated complexes of palladium(II) with a *C,N,N'* terdentate Schiff base donor ligand. Oxidative addition of an aryl–chlorine bond to palladium(0) (J.M. Vila, M. Gayoso, M.T. Pereira, M. López Torres, J.J. Fernández, A. Fernández and J.M. Ortigueira), 171
Oxidative addition of C–CN bond to nickel(0) complex: synthesis and crystal structures of Ni(CN)(*o*-C_6H_4CN)(bpy) and Ni(CN)(*p*-C_6H_4CN)(bpy) (M. Abla and T. Yamamoto), 267
Selectivity in reductive elimination and organohalide transfer from methyl(aryl)benzylpalladium(IV) complexes of bidentate nitrogen donor ligands, PdBrMe(Ar)(CH_2Ph)(L_2) (D. Kruis, B.A. Markies, A.J. Canty, J. Boersma and G. Van Koten), 235

Palladium
Cyclometallated complexes of palladium(II) with a *C,N,N'* terdentate Schiff base donor ligand. Oxidative addition of an aryl–chlorine bond to palladium(0) (J.M. Vila, M. Gayoso, M.T. Pereira, M. López Torres, J.J. Fernández, A. Fernández and J.M. Ortigueira), 171
Palladium catalyzed cross-coupling reaction of Grignard reagents with halobenzoic acids, halophenols and haloanilines (N.A. Bumagin and E.V. Luzikova), 271
Selectivity in reductive elimination and organohalide transfer from methyl(aryl)benzylpalladium(IV) complexes of bidentate nitrogen donor ligands, PdBrMe(Ar)(CH_2Ph)(L_2) (D. Kruis, B.A. Markies, A.J. Canty, J. Boersma and G. Van Koten), 235
Permethylindenyl
Synthesis, characterisation and reactivity of the first heptamethylindenyl–molybdenum complexes: crystal structures of $[Mo(CO)(\eta^2\text{-}MeC{\equiv}CMe)_2(\eta^5\text{-}C_9Me_7)]BF_4$ and $[Mo(CO)_2(\eta^3\text{-}C_3H_5)(\eta^5\text{-}C_9Me_7)]$ (M. Green, T.D. McGrath, R.Ll. Thomas and A.P. Walker), 61

Permethyltitanocene
Permethyltitanocene(III) diacetylide – magnesium tweezer complexes, intermediates in the catalysis of linear head-to-tail dimerization of terminal acetylenes (V. Varga, L. Petrusová, J. Čejka and K. Mach), 251
Phosphine
Cyclopentadiene with two coordinating sites: 1,5-bis(diphenylphosphino)-2,3,4-trimethylcyclopenta-1,3-diene (R. Broussier, S. Ninoreille, C. Legrand and B. Gautheron), 55
Phosphines
Synthesis, properties and crystal structures of pentamethylcyclopentadienyl. – and cyclopentadienyl–ruthenium(II) diphenylphosphine complexes (R. Torres Lubián and M.A. Paz-Sandoval), 17
Phosphole
Phospholes with reduced pyramidal character from steric crowding III. NMR and X-ray diffraction studies on 1-(2,4,6-tri-isopropylphenyl)-3-methylphosphole (G. Keglevich, L.D. Quin, Z. Böcskei, G.M. Keserü, R. Kalgutkar and P.M. Lahti), 109
Polymerization
Highly electron deficient Group 3 organometallic complexes based on the 1,4,7-trimethyl-1,4,7-triazacyclononane ligand system (S. Hajela, W.P. Schaefer and J.E. Bercaw), 45
Pyrolysis
Low pressure pyrolysis of hexamethyldisilane: electron spin resonance identification of radical intermediates (K. Mach, G.P. Mills and J.B. Raynor), 229
Pyrrole
Synthesis of novel heterocycles by the reaction of N,C-dilithio-2-allylpyrrole with electrophiles (B. Wrackmeyer, I. Ordung and B. Schwarze), 71

Quinuclidine
3-Methylene-2-ferrocenylmethylenequinuclidine in cycloaddition and dimerization reactions (E.I. Klimova, L. Ruíz Ramirez, M. Martinez Garcia and N.N. Meleshonkova), 181

Radicals
Low pressure pyrolysis of hexamethyldisilane: electron spin resonance identification of radical intermediates (K. Mach, G.P. Mills and J.B. Raynor), 229
X-Ray
[μ^2-,η^2-Alkynyl-hexacarbonyldicobalt]organotin complexes and the molecular structure of bis[μ^2-,η^2-ethynylhexacarbonyldicobalt]diphenyltin (B. Wrackmeyer, H.E. Maisel, G. Kehr and H. Nöth), 201
Redox reactions
Selectivity in reductive elimination and organohalide transfer from methyl(aryl)benzylpalladium(IV) complexes of bidentate nitrogen donor ligands, PdBrMe(Ar)(CH_2Ph)(L_2) (D. Kruis, B.A. Markies, A.J. Canty, J. Boersma and G. Van Koten), 235
Reduction
Reductive Pauson–Khand reaction using the $(RC{\equiv}CR')Co_2(CO)_6$/$CF_3COOH$ system (M.L.N. Rao and M. Periasamy), 143
Transition-metal complexes of cyclopentadienylphosphines. XIV. Reduction reactions of various derivatives of the chelate fragment $[(\eta^5\text{:}\eta^1\text{-}C_5H_4(CH_2)_2PPh_2)M^{III}]^{2+}$, M = Rh, Ir (I. Lee, F. Dahan, A. Maisonnat and R. Poilblanc), 159
Reductive elimination
Selectivity in reductive elimination and organohalide transfer from methyl(aryl)benzylpalladium(IV) complexes of bidentate nitrogen donor ligands, PdBrMe(Ar)(CH_2Ph)(L_2) (D. Kruis, B.A. Markies, A.J. Canty, J. Boersma and G. Van Koten), 235
Rhenium
Stepwise substitution reactions of the $(\eta^5\text{-}C_5Me_5)Re(CO)_2I_2$ complex: aryl–iodo and aryl–methyl derivatives *trans*-(η^5-

C_5Me_5)Re(CO)$_2$(Ar)X, X = I and Me. X-ray structure of *trans*-(η^5-C_5Me_5)Re(CO)$_2$(Ph)I (A.H. Klahn, A. Toro, M. Arenas, V. Manriquez and O. Wittke), 39

Rhodium

Heterocyclic carbenes. One-pot synthesis of rhodium and iridium carbene complexes (C. Köcher and W.A. Herrmann), 261

IX. Mono- and biphasic asymmetric hydroformylation with rhodium catalysts of the diphosphine ligand NAPHOS and its sulfonated derivatives (R.W. Eckl, T. Priermeier and W.A. Herrmann), 243

Rhodium and iridium complexes

Polypyrrole films containing rhodium(I) and iridium(I) complexes: improvement in their synthesis and electrocatalytic activity in aqueous media (S. Hamar-Thibault, J.-C. Moutet and S. Tingry), 31

Ruthenium

Arene–alkyne derivatives of $Ru_6C(CO)_{17}$: synthesis and structure of $Ru_6C(CO)_{12}(\eta^6\text{-arene})(\mu_3\text{-}C_2Me_2)$ (arene = $C_6H_{6-n}Me_n$, n = 0–3) and $Ru_6C(CO)_{12}(\mu_3\text{-}C_{16}H_{16})(\mu_3\text{-}C_2Me_2)$ (R.L. Mallors, A.J. Blake, S. Parsons, B.F.G. Johnson, P.J. Dyson, D. Braga, F. Grepioni and E. Parisini), 133

Diyne-bridged metal clusters: synthesis and spectroscopic characterization of [$(CO)_6Fe_2Se_2\{\mu$-HC=C(CCR)}M] (R = Me and ^{n}Bu; M = $Cp_2Mo_2(CO)_4$, $Co_2(CO)_6$, $Ru_3(CO)_{10}$ and $Os_3(CO)_{10}$). Structural characterization of [$(CO)_6Fe_2Se_2\{\mu$-HC=C(CC^{n}Bu)}$Cp_2Mo_2(CO)_4$] and [$(CO)_6Fe_2Se_2\{\mu$-HC=C(CCMe)}$Ru_3(CO)_{10}$] (P. Mathur, A.K. Dash, M. Hossain, C.V.V. Satyanarayana, A.L. Rheingold, L.M. Liable-Sands and G.P.A. Yap), 189

Synthesis and characterisation of ruthenium carbonyl complexes with cyclometallated ligands derived from senecialdimine (W.P. Mul, C.J. Elsevier, M.A. Vuurman, W.J.J. Smeets, A.L. Spek and J.L. De Boer), 89

Synthesis, properties and crystal structures of pentamethylcyclopentadienyl. – and cyclopentadienyl–ruthenium(II) diphenylphosphine complexes (R. Torres Lubián and M.A. Paz-Sandoval), 17

Scandium

Highly electron deficient Group 3 organometallic complexes based on the 1,4,7-trimethyl-1,4,7-triazacyclononane ligand system (S. Hajela, W.P. Schaefer and J.E. Bercaw), 45

Schiff base

Cyclometallated complexes of palladium(II) with a *C,N,N'* terdentate Schiff base donor ligand. Oxidative addition of an aryl–chlorine bond to palladium(0) (J.M. Vila, M. Gayoso, M.T. Pereira, M. López Torres, J.J. Fernández, A. Fernández and J.M. Ortigueira), 171

Selenium

Diyne-bridged metal clusters: synthesis and spectroscopic characterization of [$(CO)_6Fe_2Se_2\{\mu$-HC=C(CCR)}M] (R = Me and ^{n}Bu; M = $Cp_2Mo_2(CO)_4$, $Co_2(CO)_6$, $Ru_3(CO)_{10}$ and $Os_3(CO)_{10}$). Structural characterization of [$(CO)_6Fe_2Se_2\{\mu$-HC=C(CC^{n}Bu)}$Cp_2Mo_2(CO)_4$] and [$(CO)_6Fe_2Se_2\{\mu$-HC=C(CCMe)}$Ru_3(CO)_{10}$] (P. Mathur, A.K. Dash, M. Hossain, C.V.V. Satyanarayana, A.L. Rheingold, L.M. Liable-Sands and G.P.A. Yap), 189

Signs of coupling constants

[μ^2-,η^2-Alkynyl-hexacarbonyldicobalt]organotin complexes and the molecular structure of bis[μ^2-,η^2-ethynylhexacarbonyldicobalt]diphenyltin (B. Wrackmeyer, H.E. Maisel, G. Kehr and H. Nöth), 201

Silicon

Low pressure pyrolysis of hexamethyldisilane: electron spin resonance identification of radical intermediates (K. Mach, G.P. Mills and J.B. Raynor), 229

Synthesis, characterization and reactivity of Cp(C_2H_4)-Co(*o*-$Me_2SiC_6H_4SiMe_2$); a model compound of selective double silylation (Y. Kang, K.-i. Kim, S.-O. Kang, J. Ko, B.T. Heaton and J.V. Barkley), 79

Synthesis of novel heterocycles by the reaction of N,C-dilithio-2-allylpyrrole with electrophiles (B. Wrackmeyer, I. Ordung and B. Schwarze), 71

Single crystal X-ray analysis

Phospholes with reduced pyramidal character from steric crowding III. NMR and X-ray diffraction studies on 1-(2,4,6-tri-isopropylphenyl)-3-methylphosphole (G. Keglevich, L.D. Quin, Z. Böcskei, G.M. Keserü, R. Kalgutkar and P.M. Lahti), 109

Stannyl

The hydrostannation of a propargylglycine derivative (G.T. Crisp and M.G. Gebauer), 83

Stereostructure

Phospholes with reduced pyramidal character from steric crowding III. NMR and X-ray diffraction studies on 1-(2,4,6-tri-isopropylphenyl)-3-methylphosphole (G. Keglevich, L.D. Quin, Z. Böcskei, G.M. Keserü, R. Kalgutkar and P.M. Lahti), 109

Substituent effects

Studies in aryltin chemistry. X. Synthesis and NMR spectra (^{119}Sn and ^{13}C) of some *meta*- and *ortho*-substituted tetra- and triaryltin compounds. The crystal and molecular structures of tris(*m*-tolyl)- and tris(3,5-dimethylphenyl)tin(IV) chloride (I. Wharf and M.G. Simard), 1

Sulphoxides

Tris(indenyl)lanthanum(III) derivatives with two stereogenic centres: crystal structures and solution NMR spectroscopy of the adducts [$(C_9H_7)_3La \cdot L$] with L = (R)-(+)-methyl-p-tolylsulphoxide and triphenylphosphinoxide (J. Guan and R.D. Fischer), 147

Tertiary phosphine

Cyclometallated complexes of palladium(II) with a *C,N,N'* terdentate Schiff base donor ligand. Oxidative addition of an aryl–chlorine bond to palladium(0) (J.M. Vila, M. Gayoso, M.T. Pereira, M. López Torres, J.J. Fernández, A. Fernández and J.M. Ortigueira), 171

Thermolysis

Synthesis and thermolysis of Cp*($C_5Me_4CH_2$)TiR complexes (G.A. Luinstra, P.H.P. Brinkmann and J.H. Teuben), 125

Tin

[μ^2-,η^2-Alkynyl-hexacarbonyldicobalt]organotin complexes and the molecular structure of bis[μ^2-,η^2-ethynylhexacarbonyldicobalt]diphenyltin (B. Wrackmeyer, H.E. Maisel, G. Kehr and H. Nöth), 201

Synthesis of novel heterocycles by the reaction of N,C-dilithio-2-allylpyrrole with electrophiles (B. Wrackmeyer, I. Ordung and B. Schwarze), 71

The hydrostannation of a propargylglycine derivative (G.T. Crisp and M.G. Gebauer), 83

Titanium

Synthesis and thermolysis of Cp*($C_5Me_4CH_2$)TiR complexes (G.A. Luinstra, P.H.P. Brinkmann and J.H. Teuben), 125

Titanium(III)

Permethyltitanocene(III) diacetylide – magnesium tweezer complexes, intermediates in the catalysis of linear head-to-tail dimerization of terminal acetylenes (V. Varga, L. Petrusová, J. Čejka and K. Mach), 251

Titanocene

Synthesis and thermolysis of Cp*($C_5Me_4CH_2$)TiR complexes (G.A. Luinstra, P.H.P. Brinkmann and J.H. Teuben), 125

Triosmium carbonyl clusters

The rearrangement of the uncoordinated allyl fragment of the carboxamide ligand in (μ-H)$Os_3(CO)_{10}$(μ-OCNHCH_2CH=CH_2) cluster (V.A. Maksakov, V.A. Ershova, V.P. Kirin and A.V. Golovin), 11

Triphenylphosphinoxide
Tris(indenyl)lanthanum(III) derivatives with two stereogenic centres: crystal structures and solution NMR spectroscopy of the adducts $[(C_9H_7)_3La \cdot L]$ with L = (R)-(+)-methyl-p-tolylsulphoxide and triphenylphosphinoxide (J. Guan and R.D. Fischer), 147
Tweezer complex
Permethyltitanocene(III) diacetylide – magnesium tweezer complexes, intermediates in the catalysis of linear head-to-tail dimerization of terminal acetylenes (V. Varga, L. Petrusová, J. Čejka and K. Mach), 251

Ultrasound techniques
Total synthesis of parvaquone and the serendipitous discovery of a novel chromium-mediated method for β-lactone formation (J.P.A. Harrity, W.J. Kerr, D. Middlemiss and J.S. Scott), 219

Water-soluble phosphines
IX. Mono- and biphasic asymmetric hydroformylation with rhodium catalysts of the diphosphine ligand NAPHOS and its sulfonated derivatives (R.W. Eckl, T. Priermeier and W.A. Herrmann), 243

XPS
Polypyrrole films containing rhodium(I) and iridium(I) complexes: improvement in their synthesis and electrocatalytic activity in aqueous media (S. Hamar-Thibault, J.-C. Moutet and S. Tingry), 31

X-ray diffraction
Synthesis and characterisation of ruthenium carbonyl complexes with cyclometallated ligands derived from senecialdimine (W.P. Mul, C.J. Elsevier, M.A. Vuurman, W.J.J. Smeets, A.L. Spek and J.L. De Boer), 89

Yttrium
Highly electron deficient Group 3 organometallic complexes based on the 1,4,7-trimethyl-1,4,7-triazacyclononane ligand system (S. Hajela, W.P. Schaefer and J.E. Bercaw), 45

Zirconium
Synthesis of novel heterocycles by the reaction of N,C-dilithio-2-allylpyrrole with electrophiles (B. Wrackmeyer, I. Ordung and B. Schwarze), 71

Book Reviews
Deciphering the Chemical Code, Nicolaos D. Epiotis (Ed.) (R.B. King)), 277
Metal–Ligand Interactions, Structure and Reactivity, N. Russo and D.R. Salahub (Eds.) (G.J. Leigh)), 276
Metals and Ligand Reactivity, E.C. Constable (Ed.) (G.J. Leigh)), 278
Organometallic Chemistry, U.O. Spessard and U.L. Miessler (Eds.) (P. Scott)), 275